

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P936345

Luminaire Tested: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-8-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936345
REPORT IS A COMBINATION OF REPORTS P933454 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-8-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

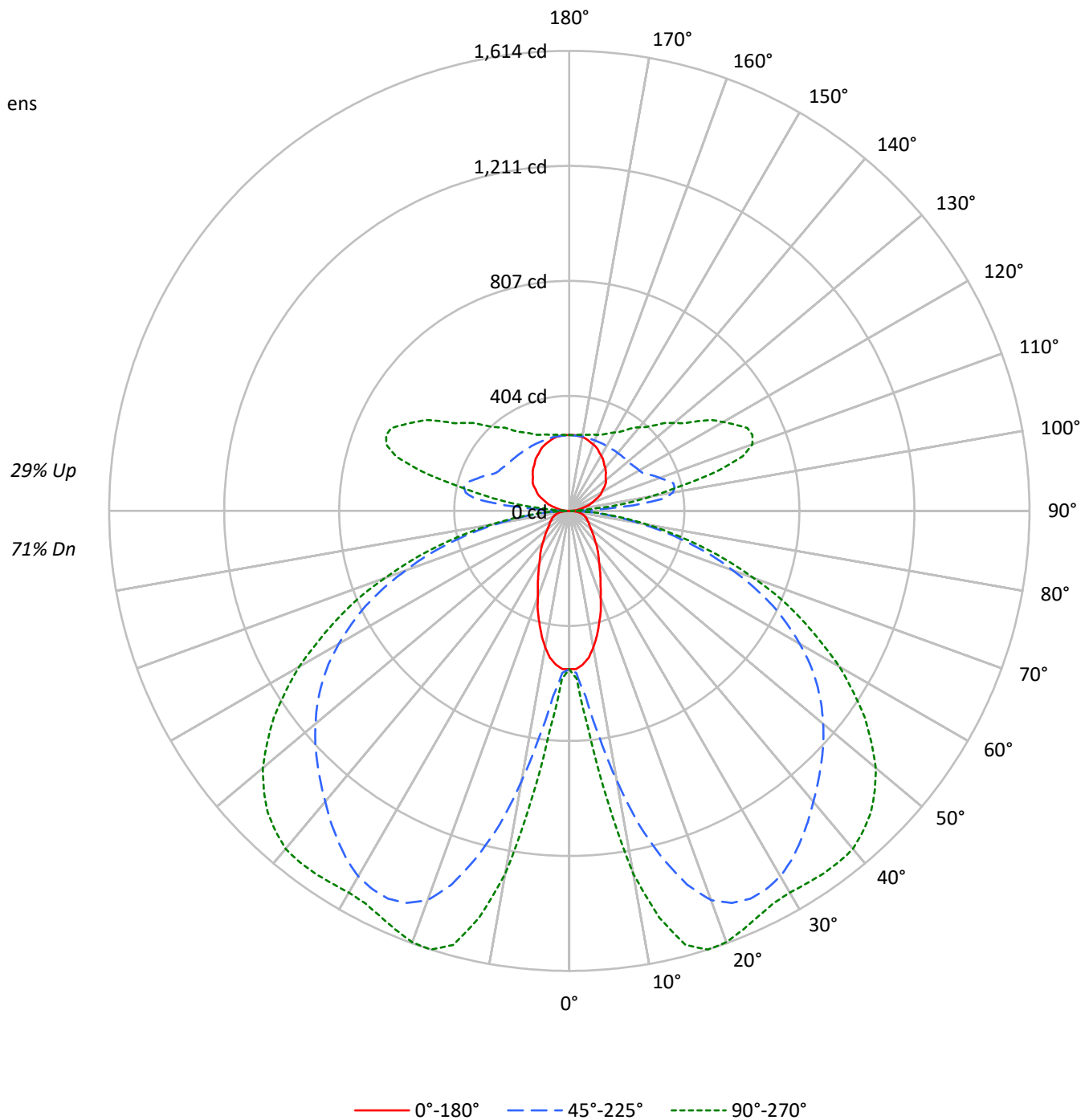
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6023.4 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71
1	102	97	93	89	96	92	88	85	82	79	77	74	71	69	66	64	62	58
2	92	84	77	71	87	79	73	68	71	66	62	64	60	57	57	54	51	48
3	83	73	65	58	79	69	62	56	62	56	51	56	51	47	50	46	43	39
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	44	40	36	33
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	28
6	64	51	42	35	60	48	40	34	43	37	32	39	33	29	35	30	27	24
7	59	45	37	31	55	43	35	30	39	32	27	35	30	25	32	27	23	21
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	18
9	51	37	29	24	48	36	28	23	32	26	21	29	24	20	26	22	18	16
10	47	34	26	21	45	33	25	21	30	23	19	27	22	18	24	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2576	2576	2576
5°	2516	2977	3463
10°	2283	4340	5741
15°	1940	5671	6932
20°	1579	6571	7065
25°	1318	6876	6921
30°	1111	6920	6908
35°	983	6805	7086
40°	856	6656	7271
45°	775	6546	7299
50°	711	6448	7179
55°	681	6304	6860
60°	698	6027	6358
65°	725	5606	5667
70°	772	4889	4788
75°	856	3986	3737
80°	936	2764	2518
85°	834	1466	1288

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7299 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	1.2
10°-20°	318.3	5.3
20°-30°	556.8	9.2
30°-40°	716.8	11.9
40°-50°	800.6	13.3
50°-60°	766.8	12.7
60°-70°	607.6	10.1
70°-80°	357.3	5.9
80°-90°	100.3	1.7
90°-100°	129.9	2.2
100°-110°	341.4	5.7
110°-120°	354.0	5.9
120°-130°	284.0	4.7
130°-140°	222.8	3.7
140°-150°	171.0	2.8
150°-160°	123.2	2.0
160°-170°	75.4	1.3
170°-180°	25.5	0.4
0°-30°	946.9	15.7
0°-40°	1663.7	27.6
0°-60°	3231.1	53.6
0°-90°	4296.3	71.3
90°-120°	825.3	13.7
90°-150°	1503.1	25.0
90°-180°	1727.0	28.7
0°-180°	6023.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	555	555	555	555	555	
5°	541	580	653	739	766	50
15°	405	748	1260	1528	1576	113
25°	259	848	1502	1568	1569	119
35°	175	810	1414	1494	1553	109
45°	120	646	1250	1432	1496	93
55°	86	411	1060	1232	1266	78
65°	68	218	787	886	898	67
75°	50	134	432	475	477	52
85°	18	41	107	118	120	19
90°	2	5	14	7	7	3
95°	17	67	224	115	78	19
105°	62	93	378	573	535	65
115°	109	133	302	603	688	108
125°	152	170	275	465	548	135
135°	181	199	266	375	425	140
145°	210	224	263	320	345	132
155°	237	244	263	289	297	109
165°	256	260	263	273	277	72
175°	266	266	265	268	268	25
180°	266	266	266	266	266	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	555.2	555.2	555.2	555.2	555.2	555.2	555.2	555.2	555.2	555.2	555.2
2.5°	555.2	555.2	558.8	560.6	564.1	565.9	569.5	573.1	583.8	585.6	589.1
5°	540.9	548.1	571.3	580.2	605.2	639.1	653.4	676.6	724.8	739.1	748.0
7.5°	519.5	535.6	592.7	607.0	669.5	758.7	796.2	846.2	923.0	960.5	990.8
10°	485.6	519.5	621.3	655.2	756.9	892.6	962.2	1032.0	1148.0	1199.8	1219.4
12.5°	448.1	503.4	651.6	698.0	844.4	1042.7	1126.6	1203.3	1335.4	1405.1	1415.8
15°	405.2	480.2	680.2	748.0	937.3	1167.6	1260.5	1355.1	1478.3	1528.3	1540.8
17.5°	367.8	462.4	707.0	778.4	1008.7	1280.1	1374.7	1453.3	1553.2	1587.2	1596.1
20°	321.3	433.8	724.8	817.6	1083.7	1362.2	1453.3	1514.0	1581.8	1603.2	1606.8
22.5°	287.4	403.5	735.5	831.9	1133.7	1412.2	1489.0	1537.2	1583.6	1590.7	1592.5
25°	258.9	369.5	733.7	848.0	1176.6	1442.6	1501.5	1537.2	1564.0	1567.5	1567.5
27.5°	232.1	332.1	726.6	851.6	1208.7	1449.7	1496.1	1521.1	1533.6	1540.8	1540.8
30°	208.9	296.3	708.7	844.4	1223.0	1442.6	1480.1	1492.5	1505.0	1515.8	1521.1
32.5°	191.0	262.4	682.0	830.1	1224.8	1424.7	1451.5	1458.6	1476.5	1501.5	1510.4
35°	175.0	228.5	651.6	810.5	1214.1	1396.1	1414.0	1421.1	1456.8	1494.3	1506.8
37.5°	158.9	203.5	612.3	776.6	1198.0	1362.2	1374.7	1387.2	1442.6	1487.2	1501.5
40°	142.8	182.1	565.9	739.1	1173.0	1321.2	1331.9	1351.5	1424.7	1476.5	1490.8
42.5°	130.3	164.2	515.9	699.8	1140.9	1274.8	1290.8	1319.4	1403.3	1458.6	1474.7
45°	119.6	146.4	462.4	646.3	1099.8	1226.5	1249.8	1289.0	1378.3	1431.9	1446.1
47.5°	108.9	133.9	407.0	590.9	1055.2	1178.3	1208.7	1253.3	1344.4	1396.1	1408.6
50°	100.0	121.4	351.7	532.0	1006.9	1126.6	1162.3	1208.7	1301.5	1349.7	1365.8
52.5°	92.8	110.7	299.9	473.1	951.5	1073.0	1114.1	1162.3	1249.8	1296.2	1306.9
55°	85.7	101.8	255.3	410.6	894.4	1015.9	1060.5	1106.9	1192.6	1231.9	1239.0
57.5°	82.1	94.6	217.8	351.7	833.7	951.5	1001.5	1044.5	1124.8	1155.1	1162.3
60°	76.8	89.3	189.2	301.7	767.7	890.8	933.7	976.5	1044.5	1069.4	1074.8
62.5°	71.4	85.7	167.8	253.5	699.8	819.4	862.3	901.5	958.7	976.5	983.7
65°	67.8	82.1	151.7	217.8	630.2	744.4	787.3	821.2	867.6	885.5	889.0
67.5°	64.3	78.6	139.2	187.5	560.6	669.5	701.6	733.7	769.4	787.3	789.1
70°	58.9	75.0	128.5	166.0	489.2	583.8	610.6	644.5	673.0	682.0	687.3
72.5°	55.3	69.6	121.4	150.0	416.0	501.7	526.6	546.3	571.3	580.2	580.2
75°	50.0	62.5	114.3	133.9	341.0	410.6	432.0	451.7	471.3	474.9	469.5
77.5°	44.6	55.3	98.2	112.5	266.0	324.9	342.8	353.5	369.5	373.1	374.9
80°	37.5	48.2	76.8	87.5	192.8	239.2	251.7	260.6	274.9	274.9	278.5
82.5°	28.6	37.5	55.3	62.5	130.3	164.2	175.0	180.3	189.2	189.2	189.2
85°	17.9	23.2	35.7	41.1	78.6	100.0	107.1	108.9	116.0	117.8	117.8
87.5°	8.9	12.5	23.2	25.0	41.1	51.8	51.8	55.3	55.3	53.6	51.8
90°	1.8	3.2	4.6	5.0	7.9	11.7	13.6	12.1	9.0	6.8	6.8
92.5°	7.1	19.3	31.5	34.5	48.6	67.2	76.5	67.0	48.2	34.0	32.7
95°	17.1	39.4	61.7	67.2	119.3	188.9	223.7	199.6	151.5	115.3	111.2
97.5°	29.7	49.4	68.9	73.8	160.8	276.7	334.7	319.6	289.1	266.3	258.5
100°	39.4	57.1	74.9	79.4	175.8	304.5	368.8	370.0	372.2	373.9	364.6
102.5°	47.6	64.2	80.8	84.9	182.8	313.3	378.6	397.9	436.7	465.8	457.8
105°	61.5	75.6	89.7	93.2	188.0	314.3	377.5	421.0	507.9	573.1	568.8
107.5°	75.8	88.9	102.0	105.3	188.9	300.3	356.0	416.6	537.9	628.9	629.9
110°	85.5	97.3	109.2	112.1	187.5	287.9	338.1	405.9	541.5	643.1	647.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	95.0	106.2	117.5	120.3	187.5	277.1	321.9	391.2	529.9	634.0	640.9
115°	109.3	119.6	130.1	132.6	189.2	264.7	302.3	369.2	502.9	603.1	612.6
117.5°	123.4	132.8	142.3	144.7	192.8	256.9	288.9	349.3	469.9	560.4	570.9
120°	131.6	140.5	149.4	151.7	195.7	254.3	283.6	338.7	448.9	531.6	541.7
122.5°	139.6	148.6	157.6	159.9	199.8	252.9	279.5	329.1	428.4	502.8	512.9
125°	152.0	160.2	168.3	170.4	205.3	251.8	275.0	317.1	401.5	464.7	474.0
127.5°	162.0	170.2	178.5	180.6	210.8	251.1	271.3	307.5	379.9	434.2	442.0
130°	167.4	176.3	185.1	187.4	214.9	251.5	269.8	302.1	366.5	414.8	422.0
132.5°	172.9	181.8	190.7	192.9	218.2	251.8	268.6	297.4	355.1	398.4	404.9
135°	181.1	189.2	197.4	199.4	221.7	251.5	266.4	290.6	338.9	375.2	380.7
137.5°	189.5	197.5	205.6	207.6	227.1	253.1	266.1	286.5	327.3	357.9	362.5
140°	196.5	203.9	211.3	213.2	230.4	253.3	264.8	282.5	317.8	344.2	348.5
142.5°	201.9	208.7	215.6	217.3	233.2	254.3	264.8	280.4	311.3	334.6	338.2
145°	210.1	216.1	222.0	223.5	236.7	254.3	263.1	275.7	301.1	320.1	322.9
147.5°	218.3	224.1	229.9	231.4	241.9	256.0	263.1	273.1	293.0	307.9	310.2
150°	223.7	229.0	234.1	235.5	244.7	256.9	263.1	271.4	288.3	300.9	302.8
152.5°	229.2	233.2	237.2	238.2	246.5	257.5	263.1	270.2	284.6	295.4	296.8
155°	237.4	240.4	243.3	244.0	250.4	258.9	263.1	268.8	280.2	288.8	289.7
157.5°	243.5	246.4	249.2	249.9	254.3	260.1	263.1	267.5	276.4	283.0	283.7
160°	247.6	249.8	252.1	252.6	256.1	260.7	263.1	266.9	274.5	280.2	280.6
162.5°	251.7	253.4	255.0	255.5	258.0	261.4	263.1	266.3	272.7	277.5	277.9
165°	256.3	257.8	259.3	259.7	260.8	262.3	263.1	265.4	269.9	273.4	273.8
167.5°	260.4	261.1	261.8	262.0	263.0	264.2	264.8	266.4	269.4	271.6	271.8
170°	263.1	263.8	264.5	264.7	264.8	264.8	264.8	266.4	269.4	271.6	271.6
172.5°	264.5	264.7	264.8	264.8	264.8	264.8	264.8	266.0	268.4	270.2	270.0
175°	266.4	266.4	266.4	266.4	265.9	265.2	264.8	265.6	267.1	268.2	268.2
177.5°	266.4	266.4	266.4	266.4	266.0	265.5	265.2	265.8	267.0	267.9	267.7
180°	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	555.2	555.2
2.5°	592.7	589.1
5°	762.3	765.9
7.5°	1026.6	1024.8
10°	1276.5	1292.6
12.5°	1458.6	1462.2
15°	1569.3	1576.5
17.5°	1612.2	1613.9
20°	1613.9	1610.4
22.5°	1594.3	1590.7
25°	1571.1	1569.3
27.5°	1549.7	1551.5
30°	1540.8	1546.1
32.5°	1540.8	1549.7
35°	1544.3	1553.2
37.5°	1542.5	1553.2
40°	1535.4	1547.9
42.5°	1515.8	1524.7
45°	1485.4	1496.1
47.5°	1446.1	1453.3
50°	1396.1	1403.3
52.5°	1333.7	1335.4
55°	1258.7	1265.8
57.5°	1178.3	1180.1
60°	1089.1	1094.4
62.5°	994.4	994.4
65°	894.4	898.0
67.5°	790.9	799.8
70°	685.5	687.3
72.5°	582.0	582.0
75°	474.9	476.7
77.5°	373.1	373.1
80°	276.7	278.5
82.5°	191.0	194.6
85°	119.6	119.6
87.5°	55.3	50.0
90°	6.8	6.8
92.5°	27.2	21.8
95°	94.9	78.5
97.5°	227.3	196.1
100°	327.5	290.4
102.5°	426.0	394.3
105°	551.7	534.6
107.5°	634.0	638.1
110°	665.4	683.2



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	668.2	695.5
115°	650.5	688.4
117.5°	613.0	655.0
120°	582.6	623.5
122.5°	553.2	593.4
125°	511.1	548.2
127.5°	473.3	504.6
130°	451.0	479.9
132.5°	430.8	456.7
135°	403.0	425.3
137.5°	380.8	399.1
140°	365.5	382.7
142.5°	352.9	367.6
145°	334.0	345.1
147.5°	319.4	328.7
150°	310.3	317.8
152.5°	302.4	308.0
155°	293.4	297.2
157.5°	286.4	288.9
160°	282.1	283.6
162.5°	279.3	280.7
165°	275.3	276.8
167.5°	272.4	273.1
170°	271.6	271.6
172.5°	269.5	268.9
175°	268.2	268.2
177.5°	267.1	266.4
180°	266.4	266.4



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	6.03	7.19	6.77	7.96	8.88	19.21	20.37	19.95	21.14	22.06
	3H	6.76	7.80	7.51	8.58	9.54	21.07	22.11	21.83	22.89	23.85
	4H	7.07	8.06	7.84	8.84	9.81	21.73	22.72	22.50	23.50	24.47
	6H	7.34	8.25	8.12	9.04	10.03	22.18	23.09	22.96	23.88	24.87
	8H	7.41	8.28	8.21	9.10	10.08	22.31	23.18	23.10	23.99	24.98
	12H	7.44	8.27	8.24	9.08	10.09	22.38	23.21	23.19	24.02	25.04
4H	2H	13.28	14.27	14.06	15.06	16.02	19.52	20.51	20.30	21.29	22.26
	3H	14.88	15.70	15.67	16.53	17.51	21.59	22.42	22.38	23.24	24.23
	4H	14.98	15.74	15.79	16.56	17.57	22.37	23.13	23.18	23.95	24.96
	6H	15.01	15.67	15.83	16.51	17.53	22.93	23.58	23.75	24.43	25.45
	8H	15.00	15.61	15.82	16.45	17.48	23.10	23.71	23.92	24.55	25.59
	12H	14.97	15.52	15.81	16.38	17.42	23.21	23.76	24.05	24.62	25.66
8H	4H	16.45	17.07	17.28	17.91	18.94	22.46	23.07	23.28	23.91	24.94
	6H	16.71	17.22	17.56	18.10	19.14	23.10	23.61	23.95	24.49	25.53
	8H	16.73	17.19	17.60	18.06	19.11	23.32	23.78	24.19	24.66	25.71
	12H	16.72	17.11	17.58	17.99	19.09	23.48	23.88	24.35	24.75	25.86
12H	4H	16.61	17.17	17.46	18.03	19.07	22.43	22.98	23.27	23.84	24.88
	6H	16.97	17.43	17.84	18.31	19.35	23.09	23.54	23.95	24.42	25.47
	8H	17.06	17.46	17.93	18.33	19.43	23.33	23.73	24.20	24.60	25.71